Approximate centers of fisher home ranges documented to date

27 fisher are currently "on the air"

Expect to have a total of at least 40 fisher tracked until death over the next seven years



# SNAMP Science Team: Wildlife – Spotted Owl



Owl Team Members

Principal Investigator:

• Rocky Gutiérrez

Project Leader:

•Douglas Tempel

Assistant Project Leader (SNAMP)

Sheila Whitmore
 Assistant Project Leader
(Eldorado):

SNAMP Public Meeting

#### Owl Team Goals

- The Owl Team will be monitoring the California Spotted Owl (Strix occidentalis) through the life of the SNAMP project in the northern site.
- Do forest fuel treatments have an effect on spotted owl territory occupancy and reproductive success?

#### Owl Team Activities

- Owl Surveys
- Pre-treatment vegetation sampling

University of Minnesota, Dept. of Fisheries, Wildlife & Conservation Biology

Sierra Nevada Adaptive Management Project

## **Owl Team Research Objectives**

- •To assess the potential effects of forest fuel treatments on spotted owl territory occupancy and reproductive
  - –Develop quasi-experimental design to evaluate relationship with the response variables.
  - -Consider relevant explanatory variables (e.g. amount of pre-existing habitat within an owl territory).
  - -Estimate the effect size of explanatory variables.

### **Owl Team Data Collection**

- •Monitor history of occupancy on each owl territory during the course of the SNAMP study.
- ·Individual owl capture-recapture histories.
- •Habitat data for each owl territory, including pretreatment data for territories that overlap planned fuel treatments.



## **Summary of Completed Fieldwork**

- •Completed 2 seasons of owl surveys (2007, 2008) on Last Chance Owl Study Area. 24 color-marked owls.
- $\bullet$  Continued owl surveys on Eldorado Owl Study Area (1986—present). 89 color-marked owls in 2007, 2008.
- •Seven SPLATs planned on the two owl study areas for 2008-2010 (including Last Chance project).
- ${}^{\bullet}\text{Completed}$  pre-treatment vegetation sampling in summer 2008 within six SPLAT sites on both owl study areas.
- •Tentative sample size of 22 treatment and 32 control owl territories.















